

<b>Comorbidity category (used in analysis)</b>	<b>Conditions included (as reported in table 2)</b>	<b>Self-reported conditions comprising this condition (UK Biobank variables used to identify self-reported conditions)</b>
Cardiovascular conditions	Hypertension	Hypertension Essential hypertension
	Coronary heart disease	Heart attack/MI Angina
	Diabetes	Diabetic nephropathy Diabetic neuropathy/ulcers Diabetes Type 1 diabetes Type 2 diabetes Diabetic eye disease
	Stroke/TIA	Stroke TIA Subarachnoid haemorrhage Brain haemorrhage Ischaemic stroke
	Atrial fibrillation	Atrial fibrillation
	Heart failure	Cardiomyopathy Hypertrophic cardiomyopathy Heart failure/pulmonary oedema
	Peripheral vascular disease	Peripheral vascular disease Leg claudication/intermittent claudication
Respiratory	COPD	COPD/Chronic obstructive pulmonary disease Emphysema/Chronic bronchitis Emphysema
	Asthma	Asthma
	PE/DVT	Deep vein thrombosis Pulmonary embolism
	Bronchiectasis	Bronchiectasis
	Pulmonary fibrosis	Pulmonary fibrosis
Cancer	Cancer	"yes"/"no" to "have you ever had cancer?"
Gastrointestinal	Dyspepsia	Gastro-oesophageal reflux (GORD) Oesophagitis/Barrett's oesophagus Gastric stomach ulcers Gastric erosions/gastritis Duodenal ulcer Dyspepsia/indigestion Hiatus hernia Helicobacter pylori
	Diverticular disease	Diverticular disease/diverticulitis

	Irritable bowel syndrome	Irritable bowel syndrome
	Chronic liver disease	Oesophageal varices Non infective hepatitis Liver failure/cirrhosis Primary biliary cirrhosis
	Inflammatory bowel disease	Inflammatory bowel disease Crohn's disease Ulcerative colitis
	Constipation	Constipation
	Viral hepatitis	Hepatitis B Hepatitis C Hepatitis D
Mental Health	Depression	Depression Postnatal depression
	Anxiety	Anxiety/panic attacks Nervous breakdown Post-traumatic stress disorder Obsessive compulsive disorder Stress Insomnia Psychological/psychiatric problem
	Schizophrenia	Scizophrenia
	Bipolar	Mania Bipolar disorder Manic depression
Painful conditions	Connective tissue diseases	Myositis/myopathy Systemic lupus erythematosus/SLE Connective tissue disorder Sjogren's syndrome.sicca syndrome Dermatopolymyositis Scleroderma/systemic sclerosis Rheumatoid arthritis Psoriatic arthropathy Dermatomyositis Polymyositis Polymyalgia rheumatica
	Other painful conditions	Back pain Joint pain Headaches (not migraine) Sciatica Plantar fasciitis Carpal tunnel syndrome Fibromyalgia Arthritis Shingles Disc problem Prolapsed disc/slipped disc

		Spine arthritis/spondylitis Ankylosing spondylitis Back problem Osteoarthritis Gout Cervical spondylosis Trigeminal neuralgia Disc degeneration Trapped nerve/compressed nerve
Other	Osteoporosis	Osteoporosis